#### PATENT COOPERATION TREATY

## **PCT**

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference ONF-5915PCT	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/JP2006/301759	International filing date (day/month/year) 02 February 2006 (02.02.2006)	Priority date (day/month/year) 03 February 2005 (03.02.2005)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant (YORIN PHARMACEUTICAL CO., LTD.				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 <i>bis</i> .1(a).		
2.	This REPORT consists of a total of 6 sheets, including this cover sheet.		
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.		
3.	3. This report contains indications relating to the following items:		
	Box No. I	Basis of the report	
	Box No. II	Priority	
	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability	
	Box No. IV	Lack of unity of invention	
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement	
	Box No. VI	Certain documents cited	
	Box No. VII	Certain defects in the international application	
	Box No. VIII	Certain observations on the international application	
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority	
		Date of issuance of this report 07 August 2007 (07.08.2007)	
		01 August 2007 (01.00.2007)	

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#### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing 16.05.2006 (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION ONF-5915PCT See paragraph 2 below International application No. International filing date (day/month/year) Priority date (day/month/year) PCT/JP2006/301759 02.02.2006 03.02.2005 International Patent Classification (IPC) or both national classification and IPC A61K31/4164, A61K9/70, A61K47/06, A61K47/10, A61K47/12, A61K47/14, A61K47/16, A61K47/22, A61K47/32, A61K47/46, KYORIN PHARMACEUTICAL CO., LTD. This opinion contains indications relating to the following items: Box No. I Basis of the opinion Box No. II Priority Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Name and mailing address of the ISA/JP Date of completion of this opinion Authorized officer Facsimile No. Telephone No.

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Box	k No. I	Basis of this opinion
1.	With	regard to the language, this opinion has been established on the basis of:
	$\boxtimes$	the international application in the language in which it was filed
		the translation of the international application into, which is the language of a
		translation furnished for the purposes of international search (Rule 12.3(a) and 23.1(b)).
2.		regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed action, this opinion has been established on the basis of:
	a.	type of material
		a sequence listing
		table(s) related to the sequence listing
	b.	format of material
		on paper
		in electronic form
	c.	time of filing/furnishing
		contained in the international application as filed
		filed together with the international application in electronic form
		furnished subsequently to this Authority for the purposes of search
3.		In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4.	Addi	tional comments:

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Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement		
	Novelty (N)	Claims1-19	YES
		Claims	NO
	Inventive step (IS)	Claims	YES
		Claims1-19	_ NO
	Industrial applicability	(IA) Claims1-19	YES
		Claims	_ NO
2.	Citations and explanations	s:	
	Document 1:	JP 7-215943 A (Kyorin Pharmaceutical Co.,	
		Ltd.), 15 August 1995	
	Document 2:	WO 2000/064435 A1 (Lead Chemical Co., Ltd.),	
		2 November 2000	
	Document 3:	JP 10-152434 A (Nitto Denko Corp.), 9 June	
		1998	
	Document 4:	WO 95/031190 A1 (Hisamitsu Pharmaceutical	
		Co., Inc.), 23 November 1995	
	Document 5:	JP 2001-039873 A (Nichiban Co., Ltd.), 13	
		February 2001	
	Document 6:	JP 6-145052 A (Hisamitsu Pharmaceutical Co.,	
		Inc.), 24 May 1994	
	Document 7:	JP 4-266821 A (Lead Chemical Co., Ltd.), 22	
		September 1992	
	Document 8:	JP 4-273818 A (Kissei Pharmaceutical Co.,	
		Ltd.), 30 September 1992	
	5		
		nt 1 states that imidafenacin is useful as a	
	_	drug for the treatment of frequent urination,	
	_	ontinence, and the like, but makes no	
		pertaining to a transdermal absorption-type	
	preparation.	•	

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Box No. V

Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

However, oral administration of a drug to elderly or bedridden patients is a known problem in the field of therapeutic drugs for the treatment of frequent urination and urinary incontinence, and as noted in documents 2 to 8, the need for a transdermal absorption-type preparation which is easily administered, is long-lasting, and has few side effects is known in the art. Thus, a person skilled in the art could easily conceive of forming a transdermal absorption-type preparation of imidafenacin.

Further, when doing so, optimizing features such as the active ingredient content and the size of the preparation is merely a process fittingly carried out by a person skilled in the art. Tackifiers such as a styrene-isoprene-styrene block copolymer, amphipathic solubilizing agents such as N-methyl-2-pyrrolidone, transdermal permeability enhancers such as triacetin, and oxidizers such as dibutyl hydroxytoluene are known components of a transdermal absorption-type preparation, as disclosed in documents 2 to 8, for example. Thus, using an appropriate combination of the various components is nothing more than the normal exercise of the faculties of a person skilled in the art.

Moreover, no exceptional effect is deemed to result from the above feature.

Accordingly, the inventions set forth in claims 1 to 19 do not involve an inventive step in the light of documents 1 to 8.

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Supplemental Box				
In case the space in any of the preceding boxes is not sufficient.  Continuation of: IPC				
A61P11/00, A61P11/06, A61P13/02				